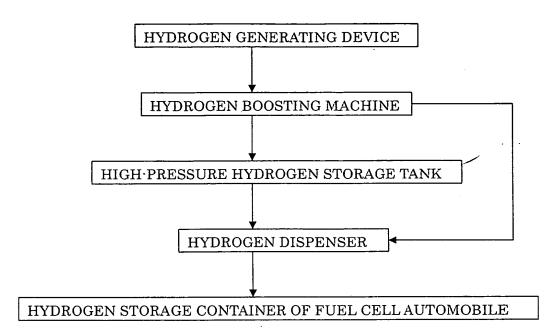
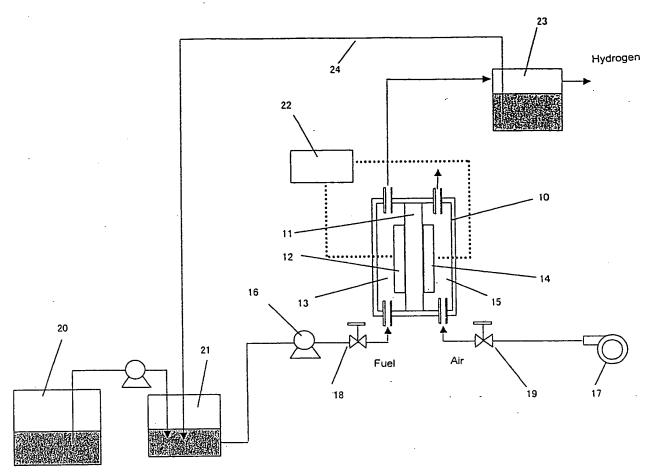
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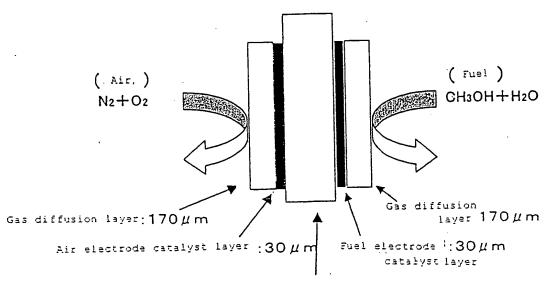
F I G. 1 (a)



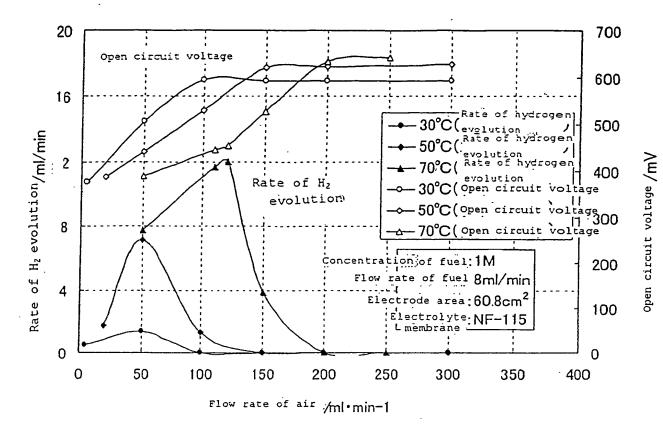
F I G. 1 (b)



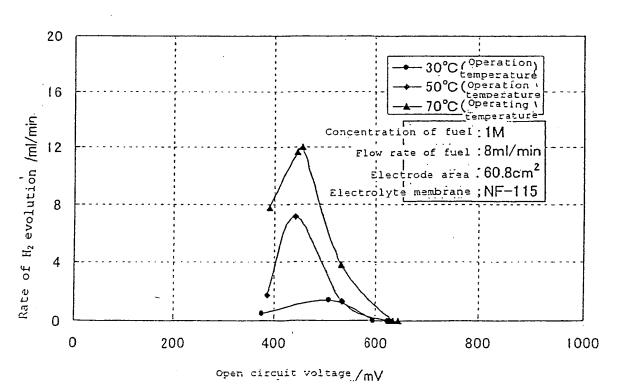
F I G. 2

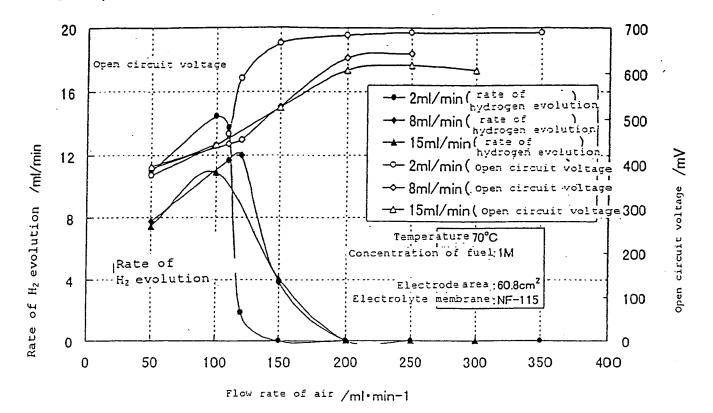


Electrolyte membrane (Mafion 115)

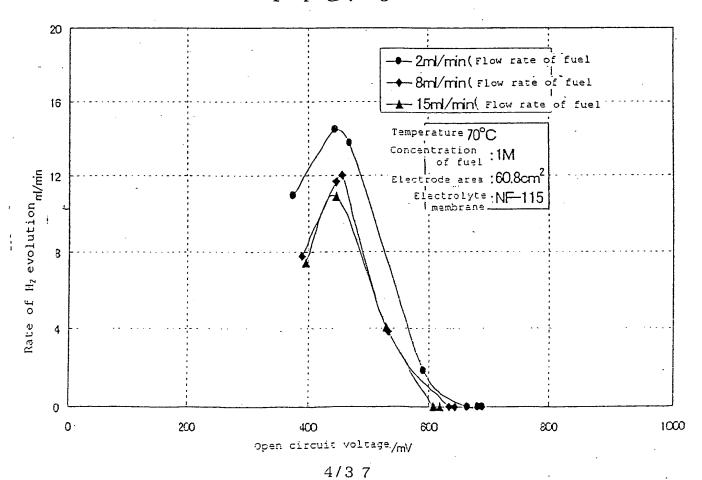


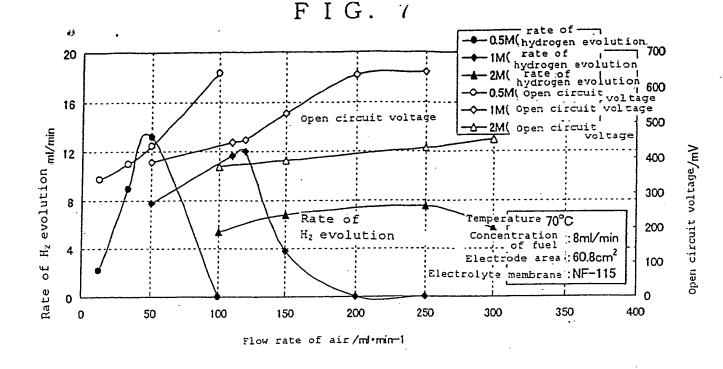
F I G. 4

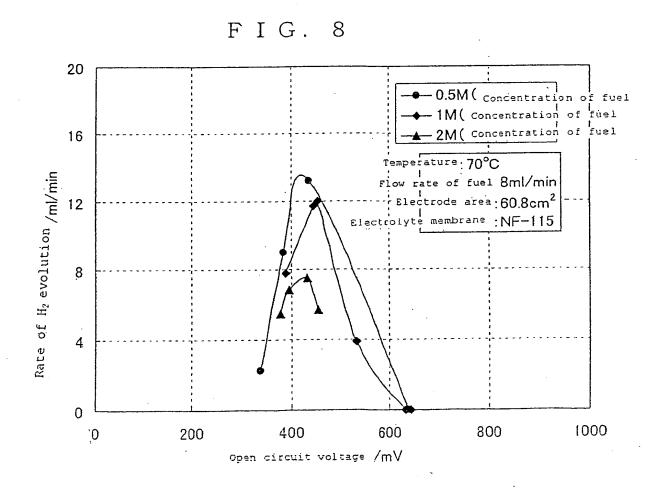


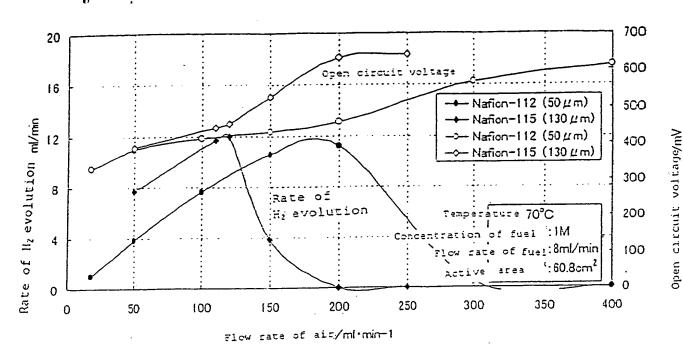


F I G. 6

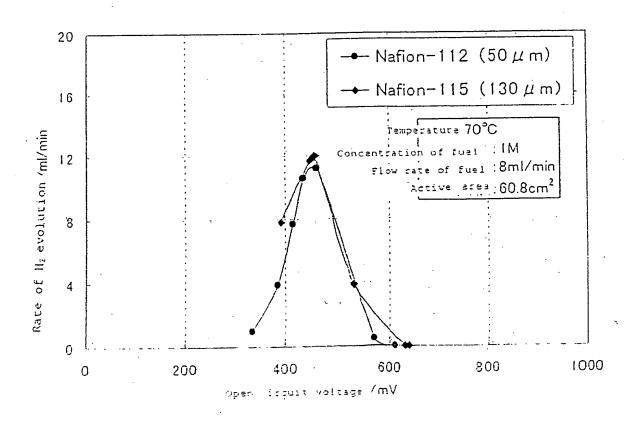








F [G. 10



F I G. 11

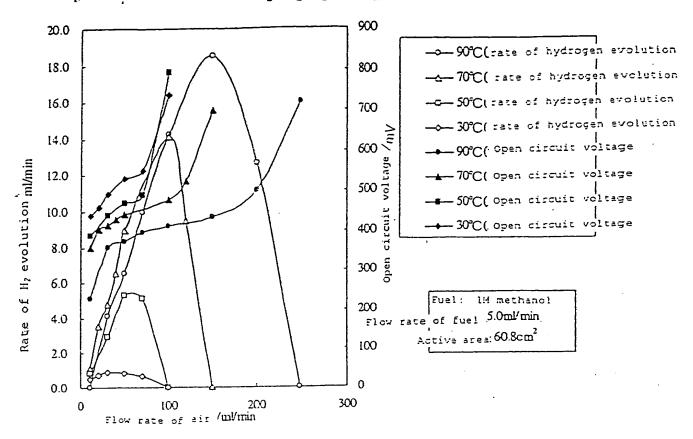
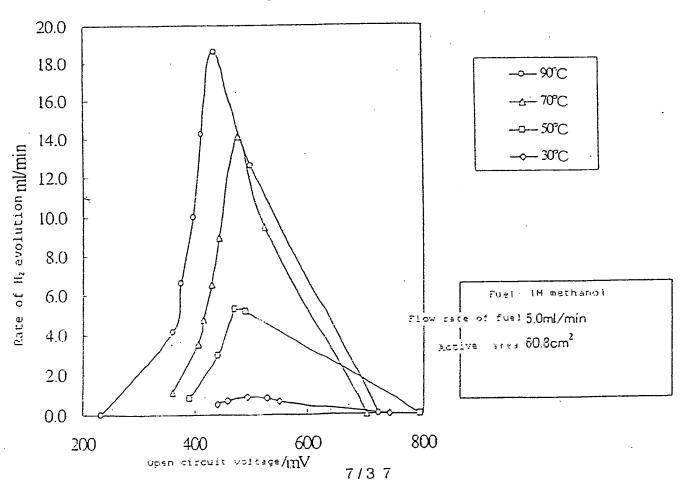
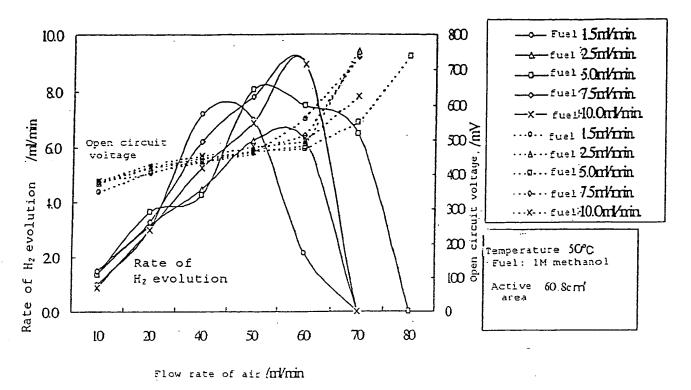


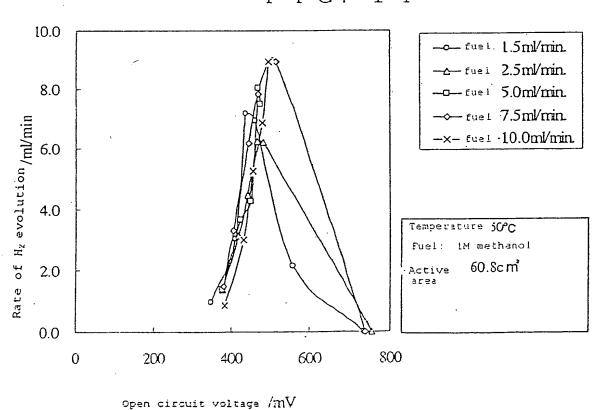
FIG. 12



F I G. 13

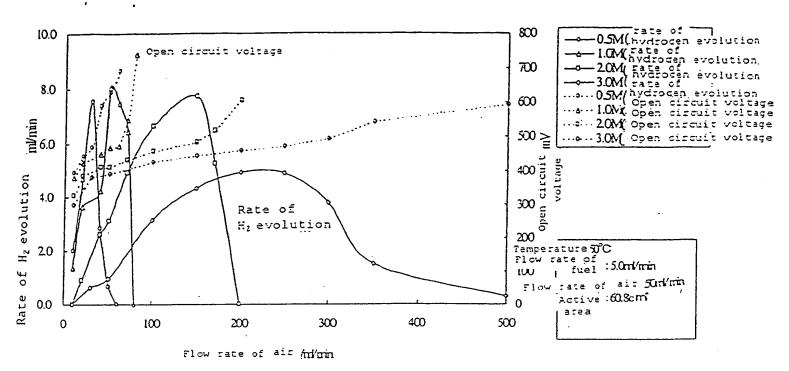


F I G. 14

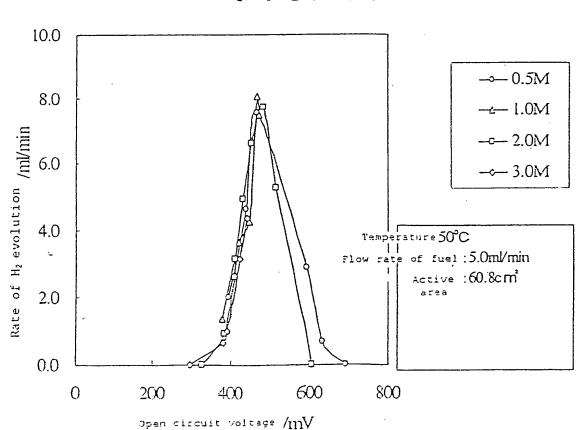


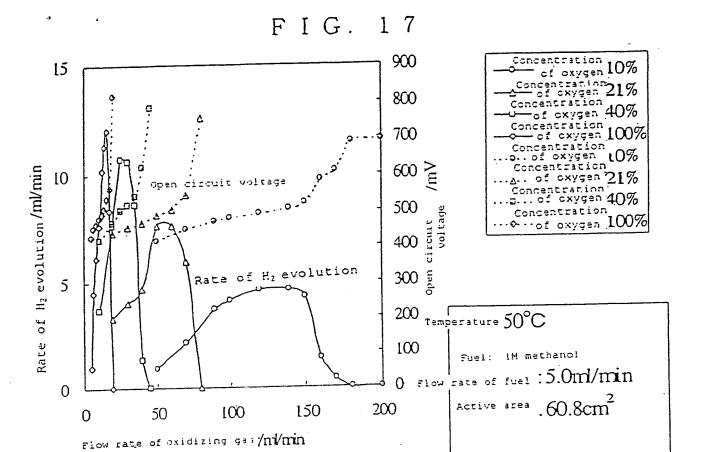
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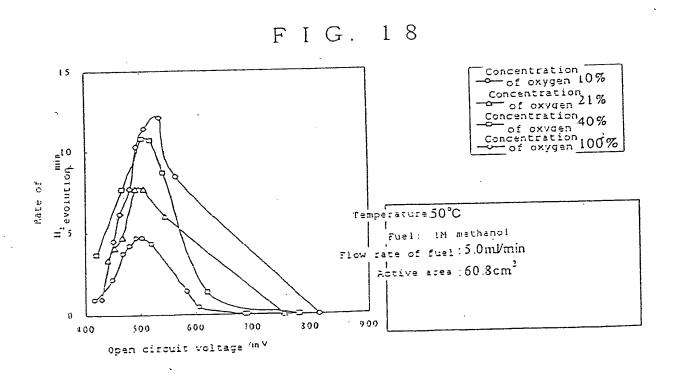
F I G. 15

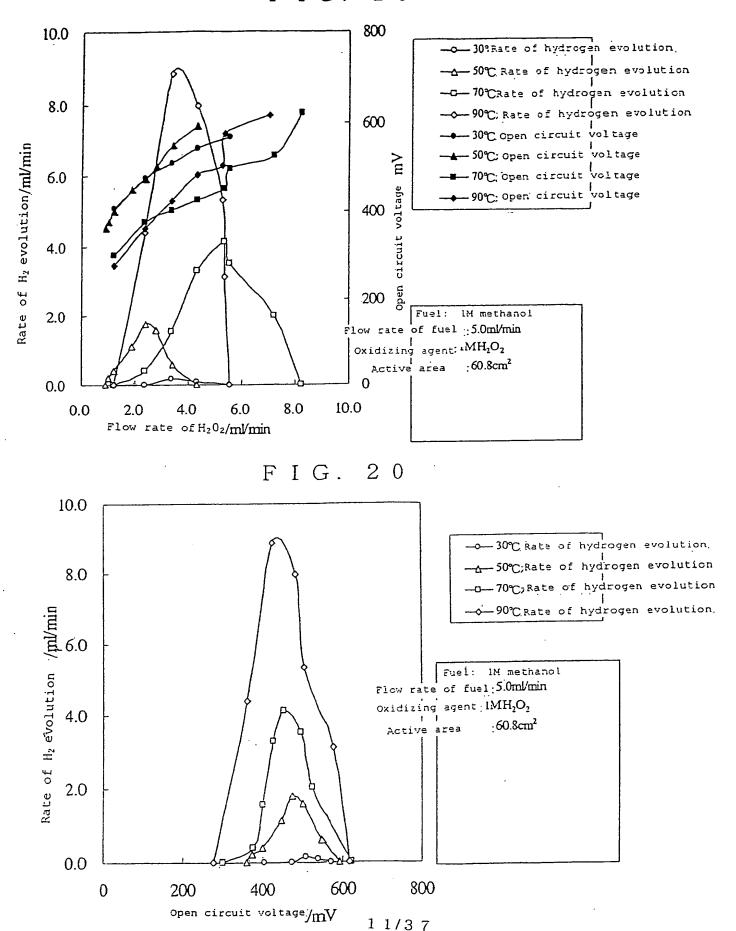


F I G. 16









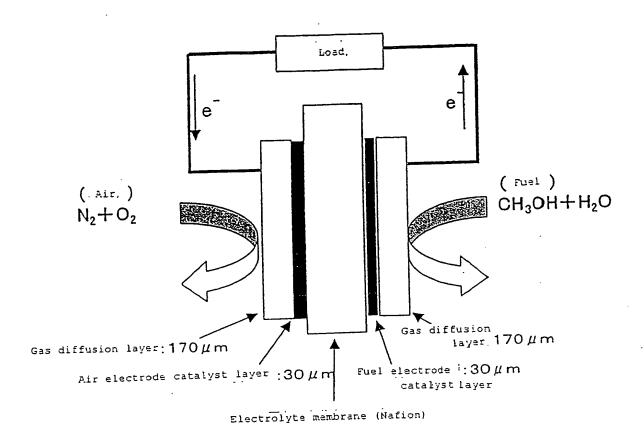
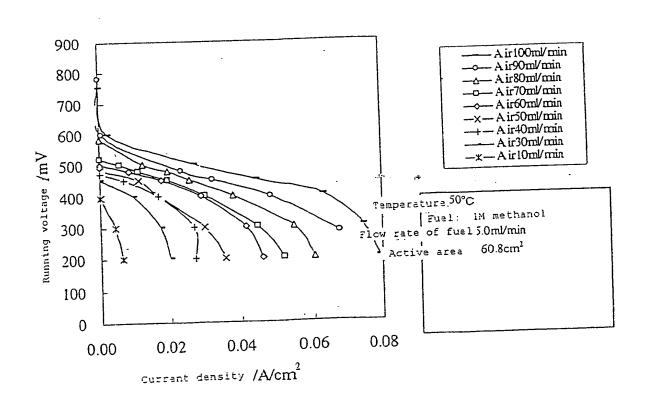
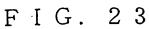


FIG. 22





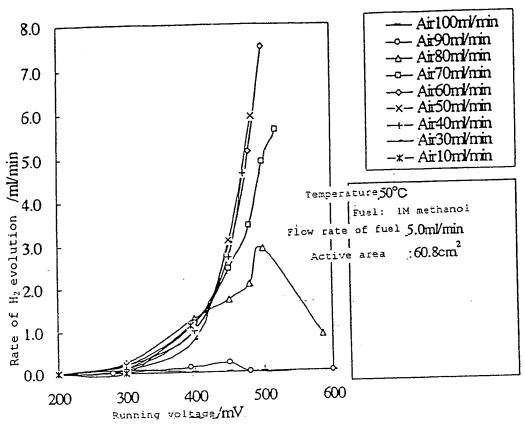


FIG. 2 4 800 ---- Air100ml/min -△- Air70ml/min 700 – Air50ml/min 600 - Air30ml/min 500 Running voltaße/mV 400 of fuel 5.0ml/min 300 Active area :60.8cm 200 100 0 0.08 0.10 0.06 0.02 0.04 0.00 current density/A/cm2

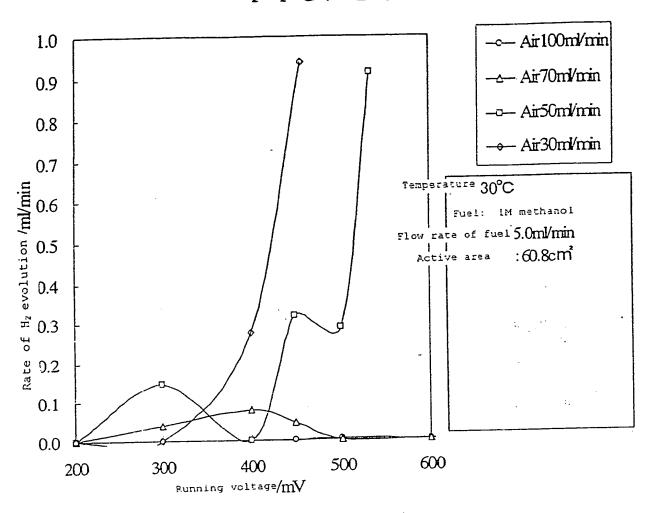
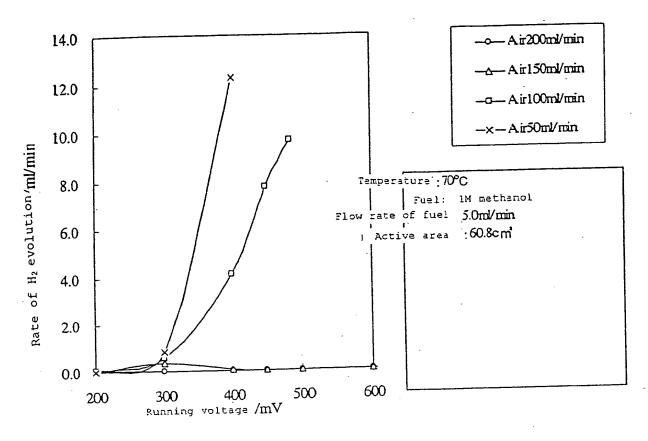


FIG. 26 800 — Air200ml/min 700 – Air150ml/min -a--- Air100ml/min 600 x-- Air50ml/min Temperature, 70°C | Fuel: 1M methanol ow rate of fuel 5.0ml/min 100 0 0.00 0.02 0.04 0.06 0.08 0.10 0.12 0.14 0.16 Current density/A/cm²

FIG. 27



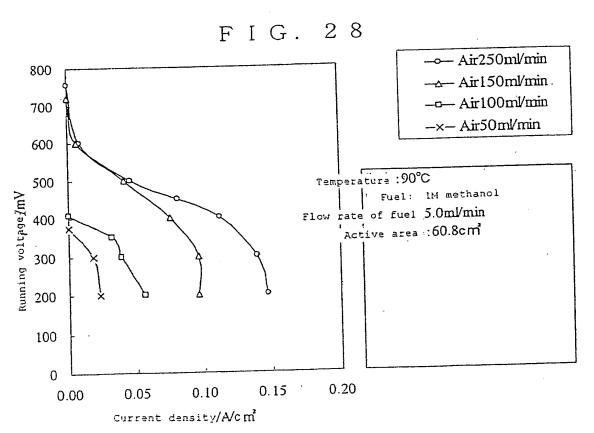
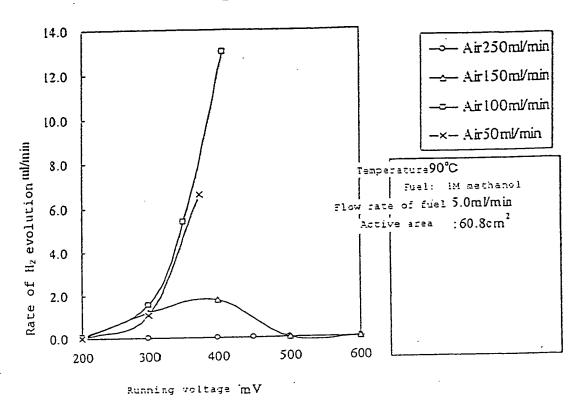
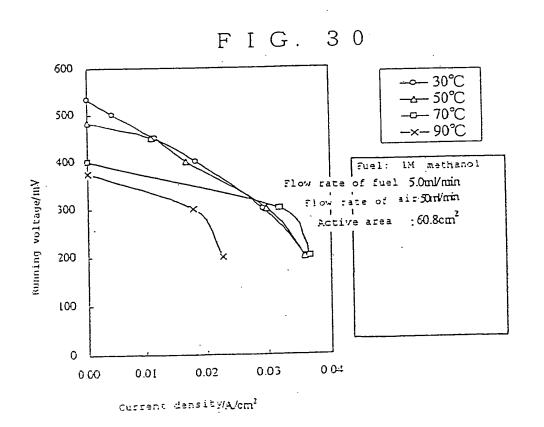
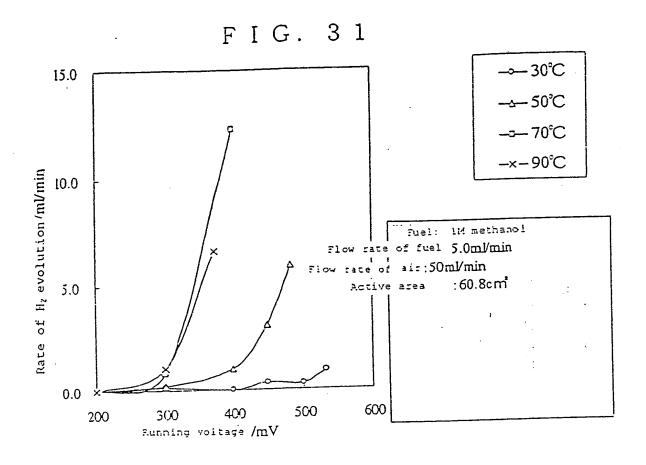
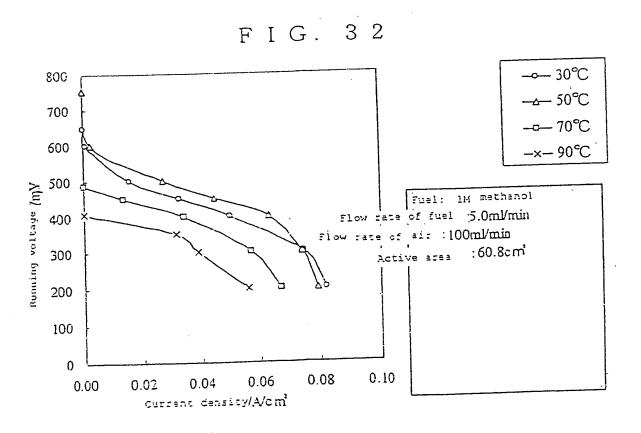


FIG. 29

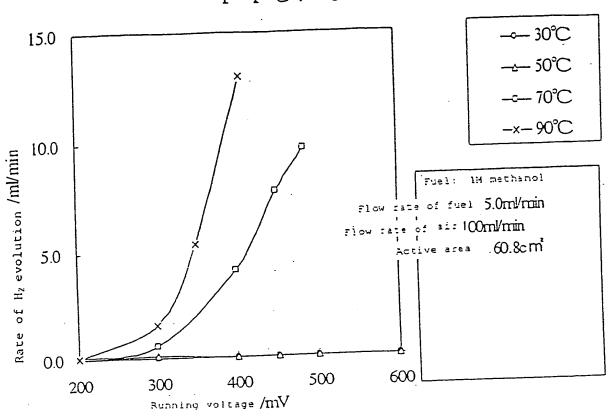








F I G. 33



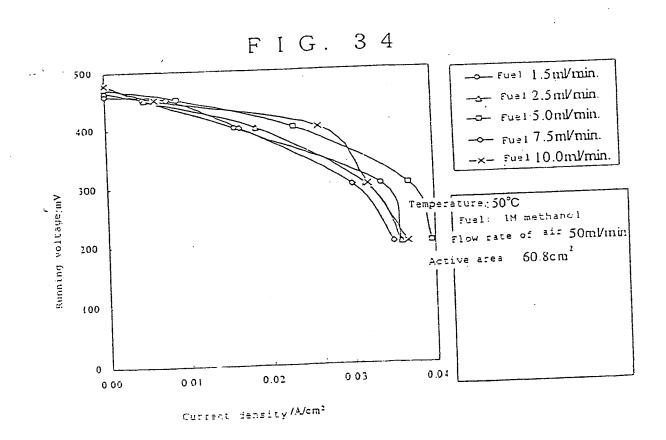
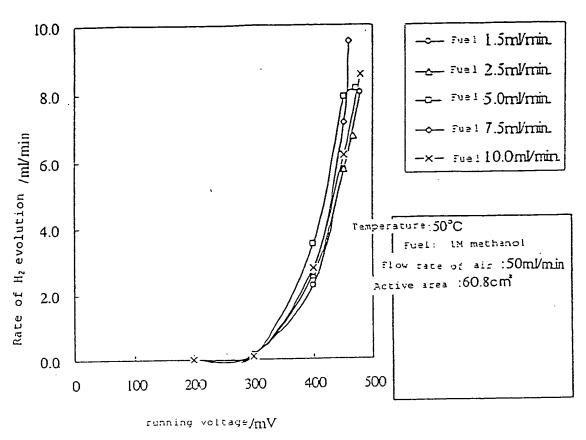
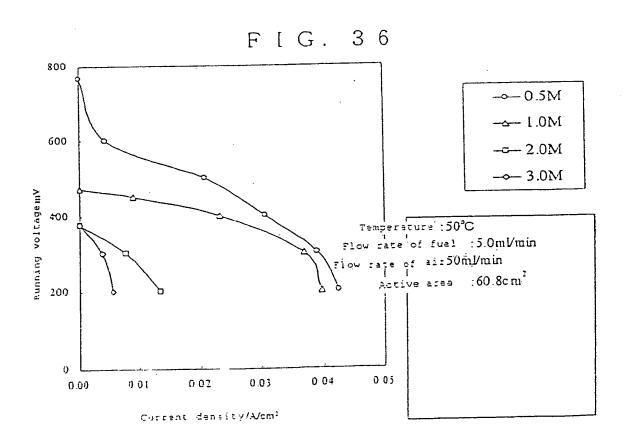
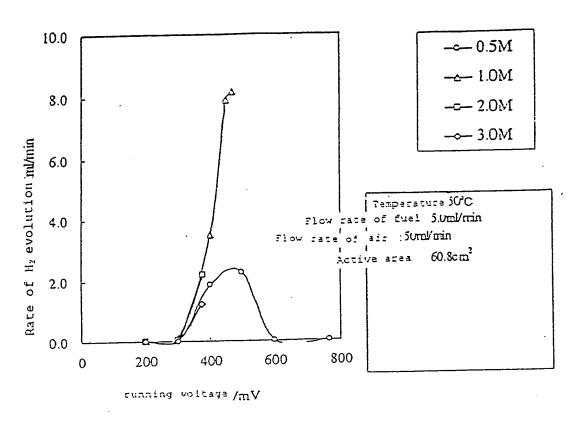


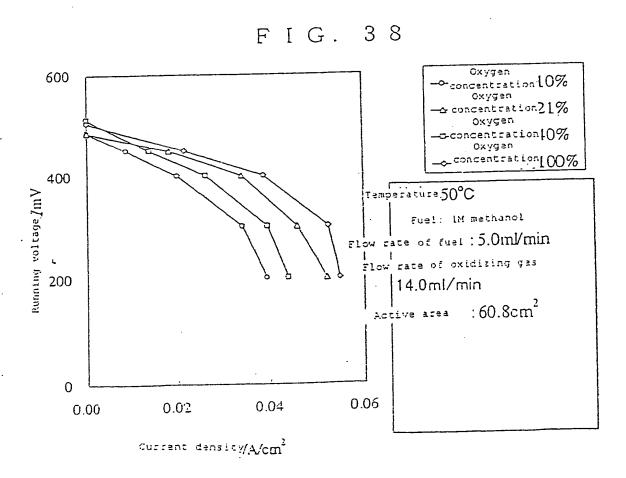
FIG. 35



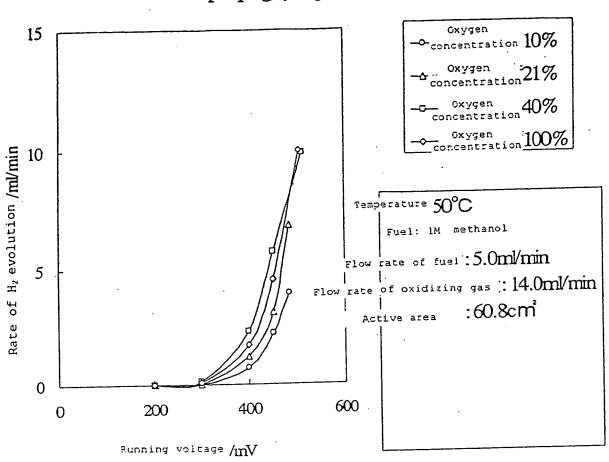


F I G. 37

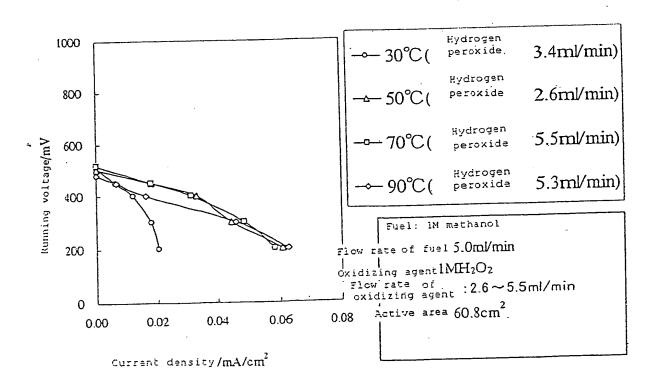




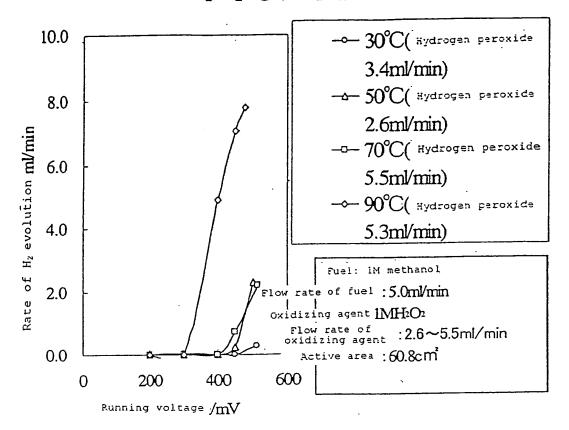


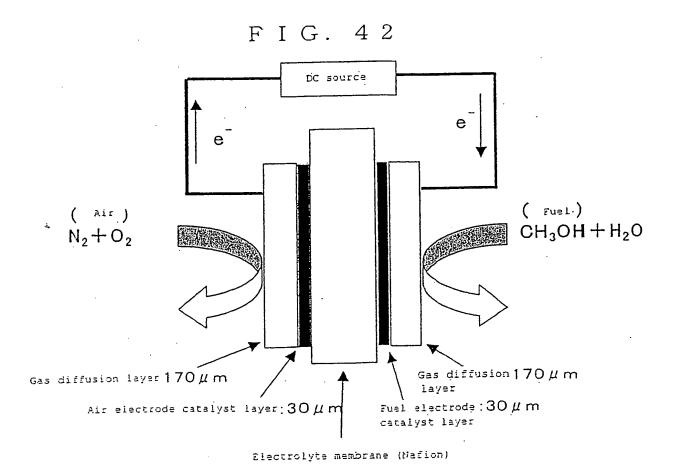


F I G. 40

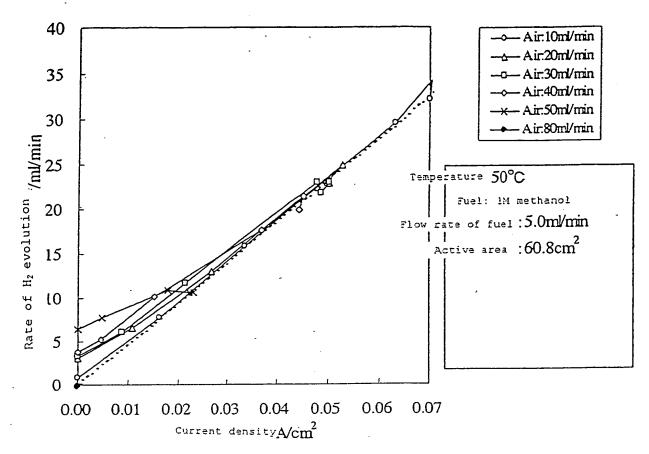


F I G. 41

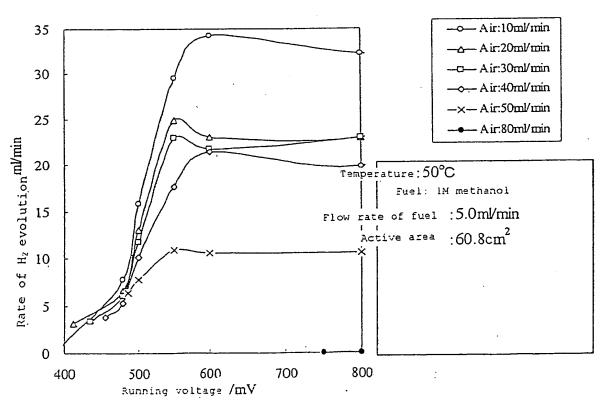


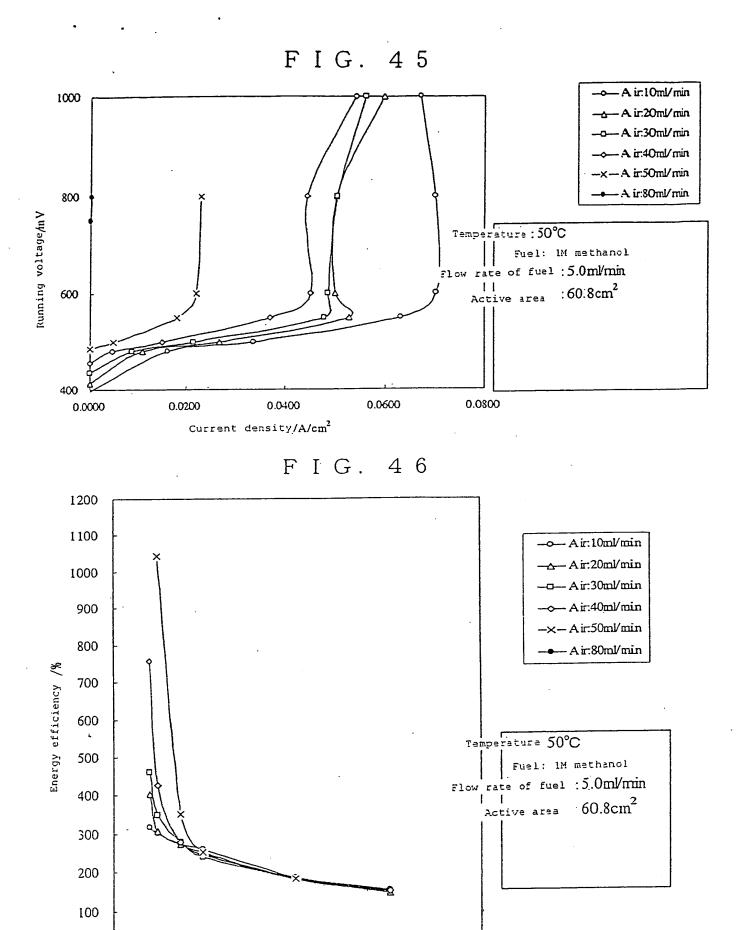


F I G. 43

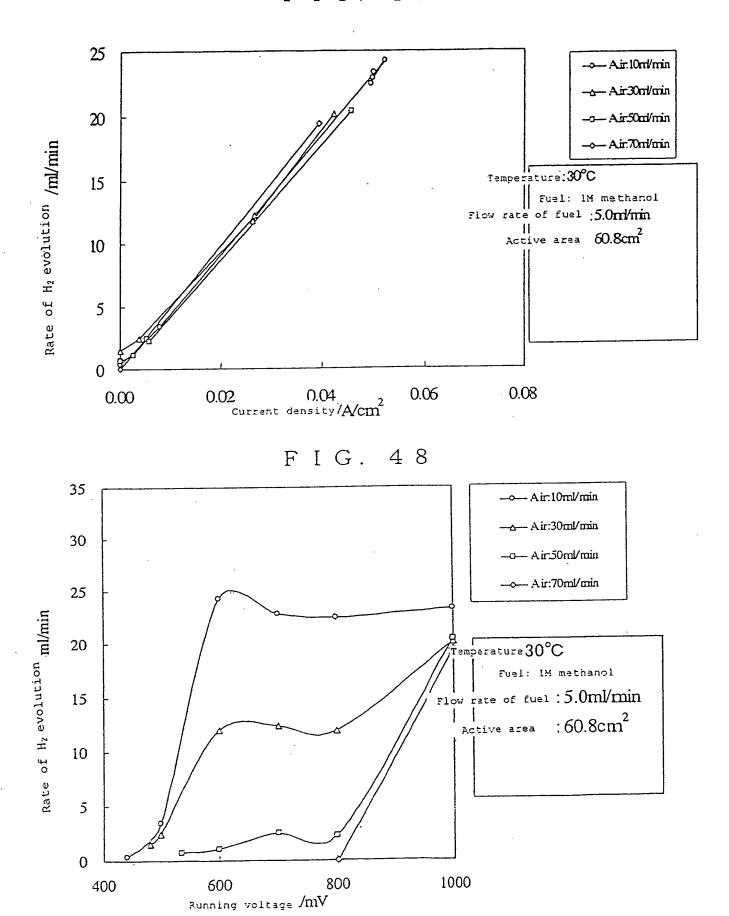


F I G. 44



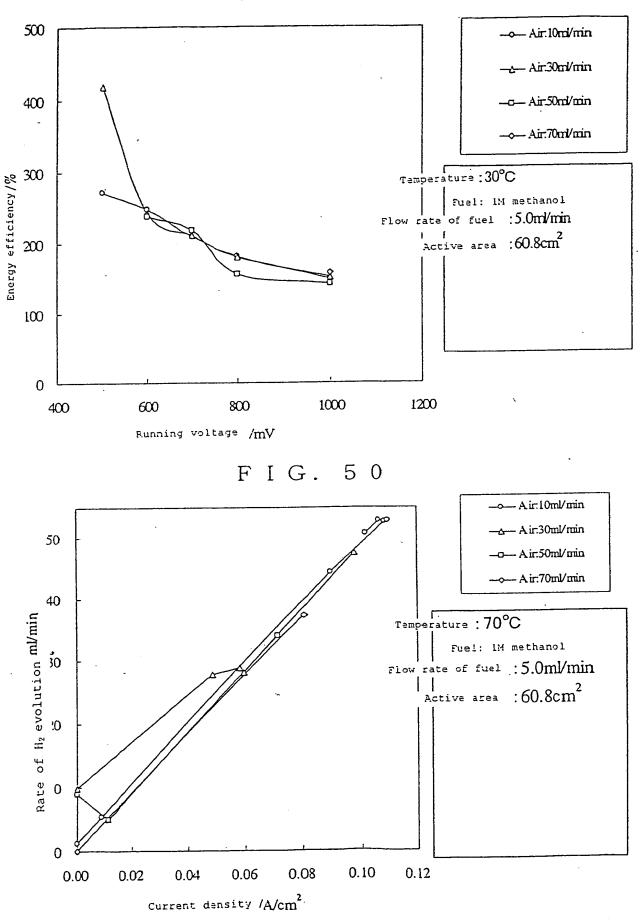


Running voltage/mV



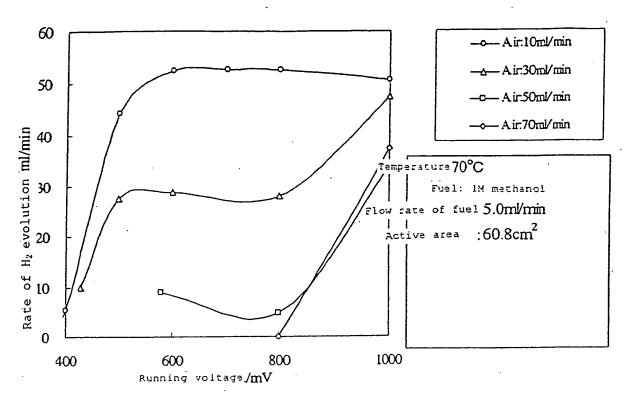
2 5/3 7

F I G. 49

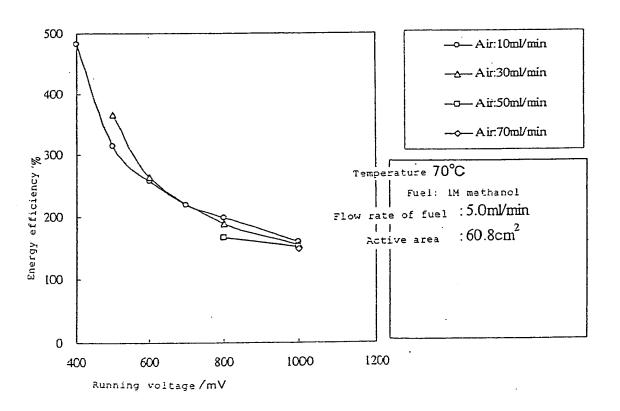


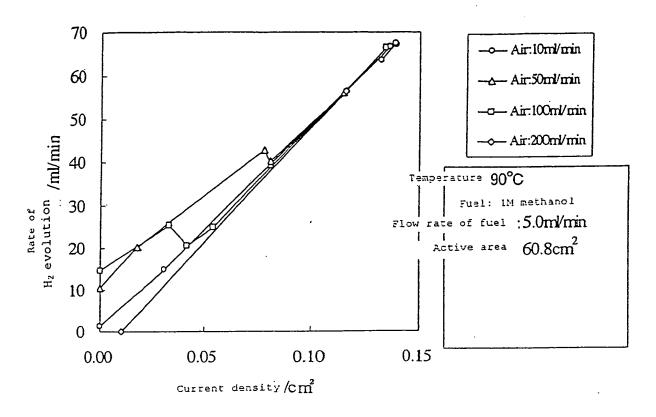
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FIG. 51

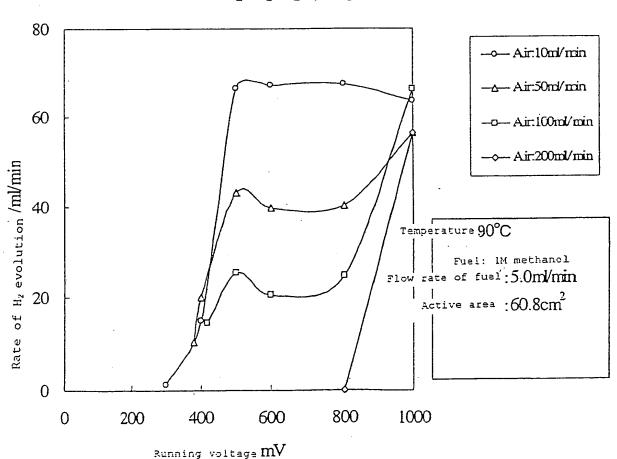


F I G. 52





F I G. 54



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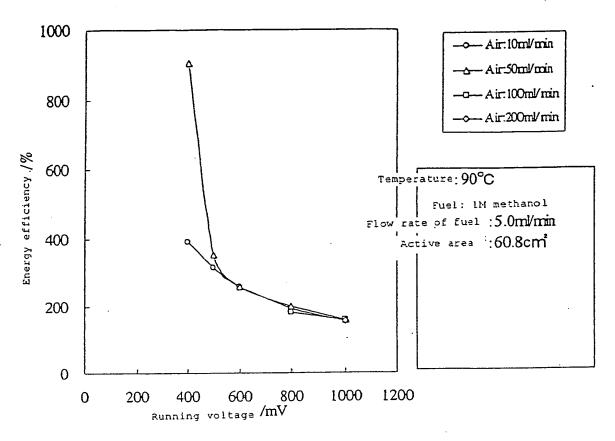
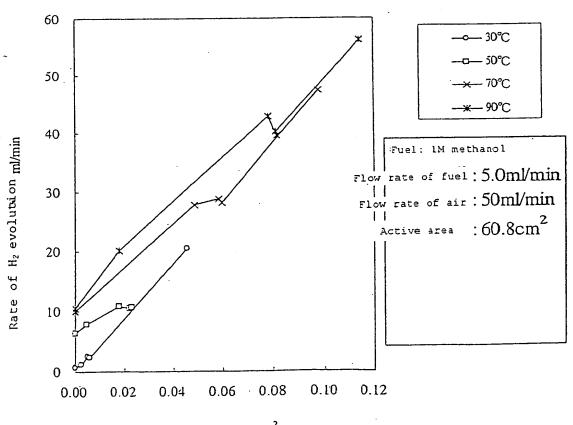
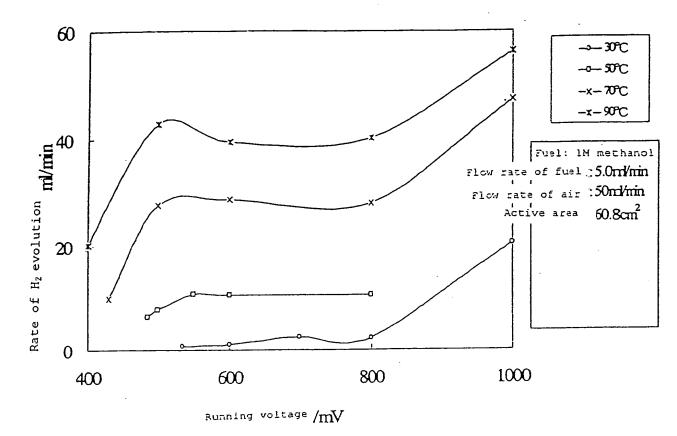


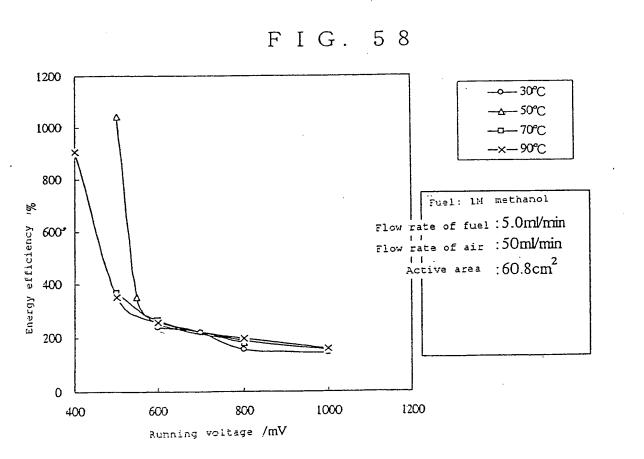
FIG. 56

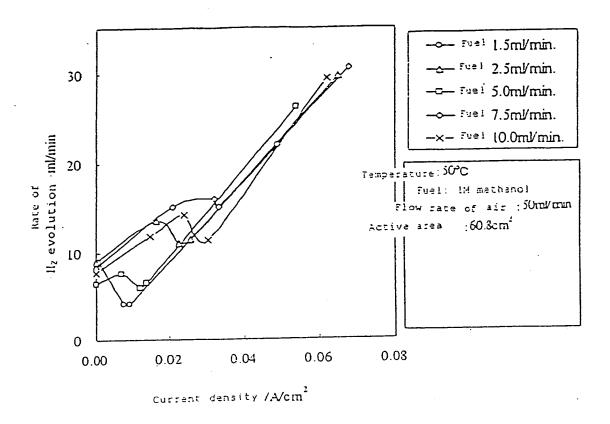


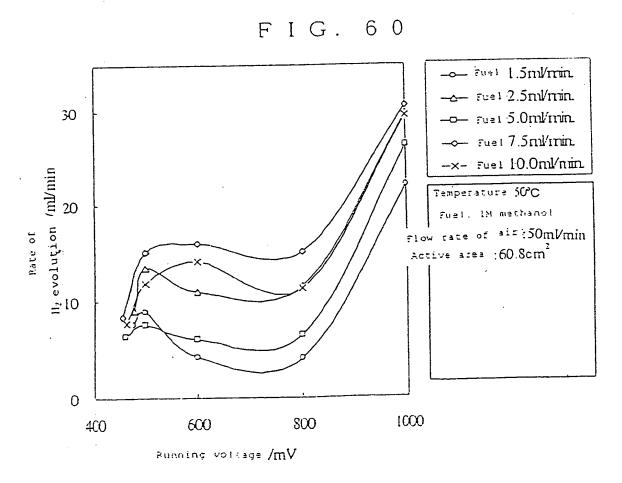
Current density/A/cm²

F I G. 57

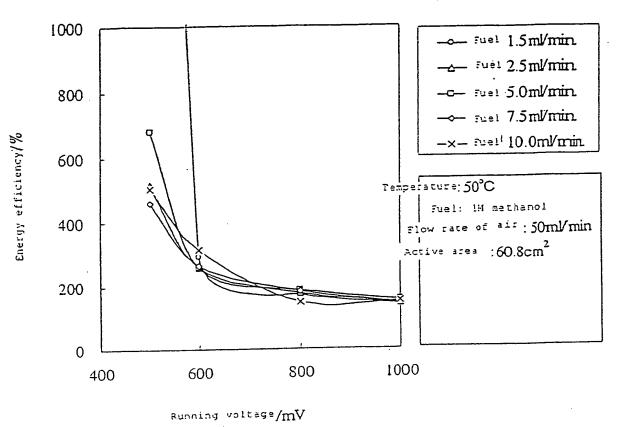




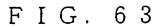


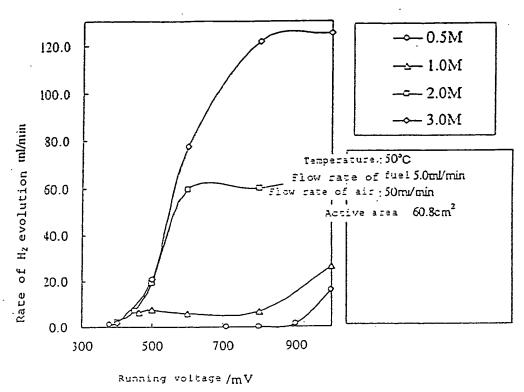


F I G. 61

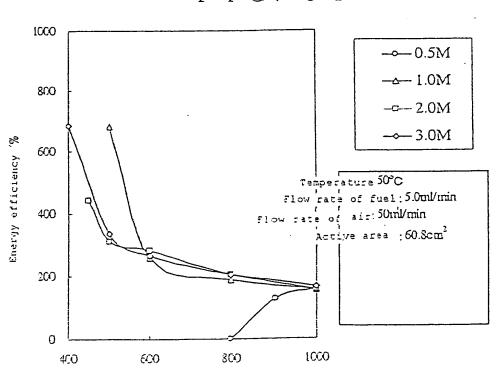


F I G. 62 150 ---- 0.5M 140 130 ---- 1.0M 120 -c- 2.0M 110 100 →- 3.0M H₂ evolution /nll/min 90 80 Temperature 50°C 70 of fuel 5.0ml/min flow rate of air :50ml/min 60 50 Active area : 60.8cm² 40 30 20 10 0 0.10 0.20 0.25 0.15 0.05 0.00 Current density/A/cm²



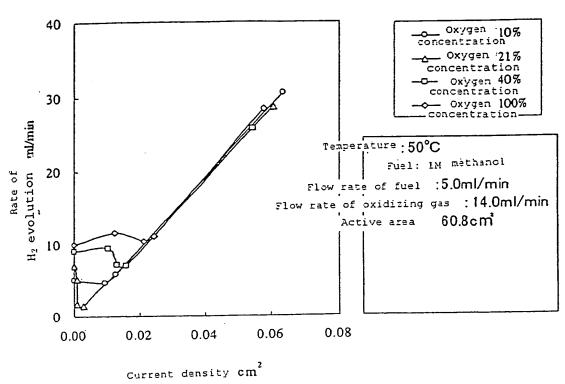


F I G. 64



Funning voltage /mV





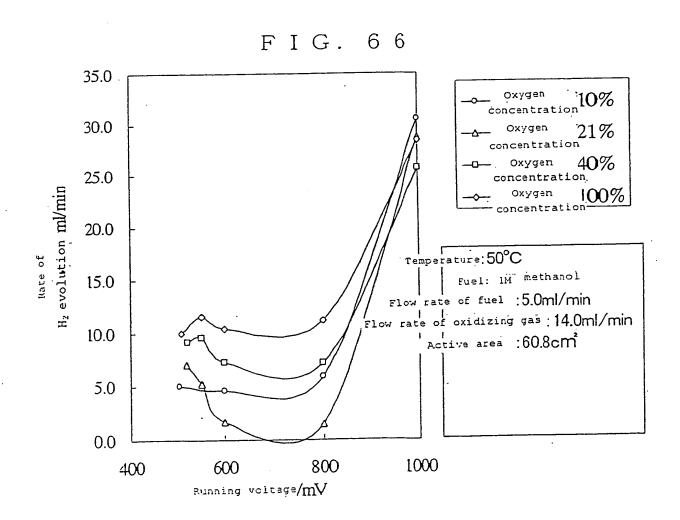


FIG. 67

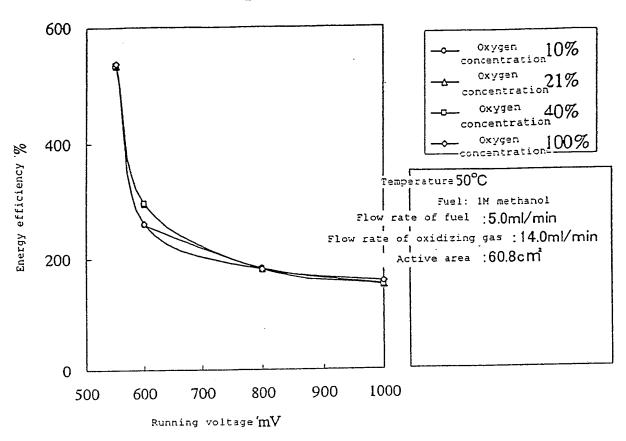
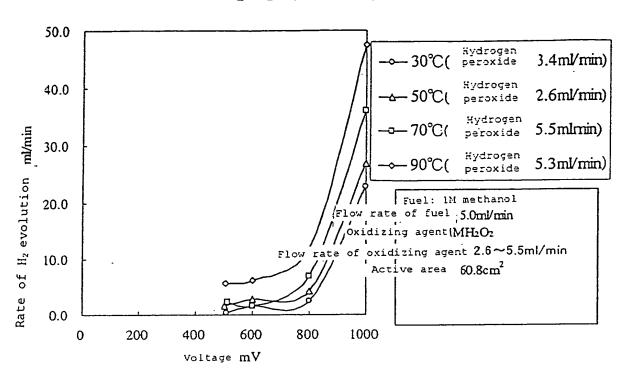
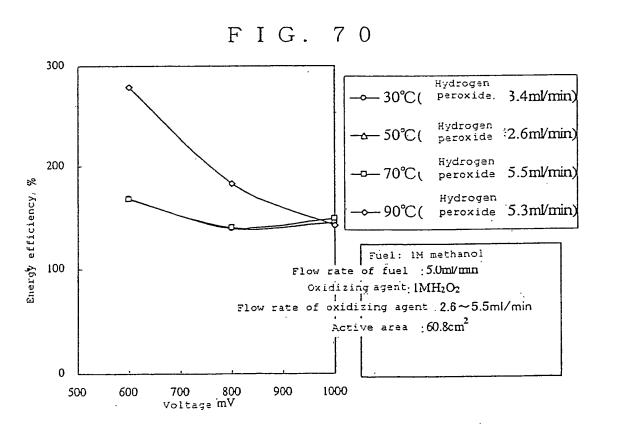


FIG. 68 50.0 Hydrogen peroxide 3.4ml/min) -⊶ 30°C (Hydrogen peroxide, 2.6ml/min) -∆-- 50°C(40.0 Hydrogen peroxide 5.5ml/min) -**---** 70°C(: Hydrogen peroxide Rate of H₂ evolution inl/min **⊶** 90°С (5.3ml/min) 30.0 Fuel: 1M methanol. Flow rate of fuel :5.0ml/min 0.0 Oxidizing agent LMHbOr Flow rate of oxidizing agent 2.6~5.5ml/min Active area 60.8cm² 0.0 0.0 0.06 0.08 0.10 0.12 0.00 0.02 0.04 Current density A/cm²

F I G. 69





F I G. 71

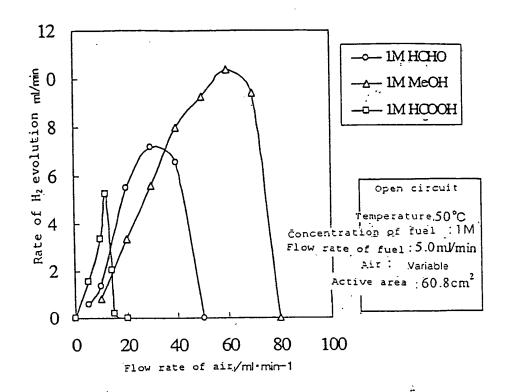
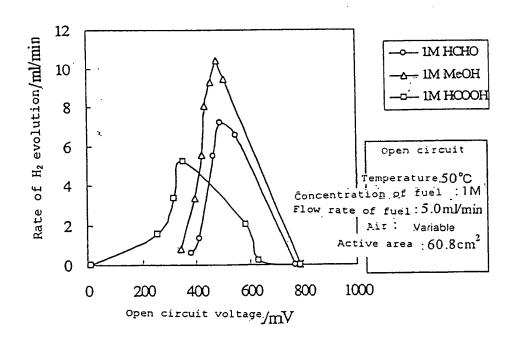


FIG. 72



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